

Title (en)

CHIMERIC PROTEIN COMPOSED OF NGF ANTAGONIST DOMAIN AND A TNFA ANTAGONIST DOMAIN

Title (de)

CHIMÄRES PROTEINS BESTEHEND AUS EINER NGF ANTAGONIST UND EINER TNFA ANTAGONIST DOMAINE

Title (fr)

PROTÉINE CHIMÉRIQUE COMPOSÉE DE NGF ANTAGONISTE DOMAINE ET UN TNFA ANTAGONISTE DOMAINE

Publication

**EP 3099713 A1 20161207 (EN)**

Application

**EP 15701985 A 20150202**

Priority

- US 201461934828 P 20140202
- EP 2015052098 W 20150202

Abstract (en)

[origin: WO2015114150A1] This disclosure provides compositions and methods for controlling pain. In particular the disclosure provides a method for controlling pain comprising co-administration of an NGF antagonist and a TNF $\alpha$  antagonist. The NGF antagonist and the TNF $\alpha$  antagonist can be separate molecules or part of a multifunctional polypeptide, e.g., a multispecific binding molecule that comprises an NGF antagonist domain and a TNF $\alpha$  antagonist domain. This disclosure also provides multifunctional polypeptides, e.g., multispecific binding molecules, comprising an NGF antagonist domain, and a TNF $\alpha$  antagonist domain. The method provides improved pain control. Administration of an NGF antagonist and a TNF $\alpha$  antagonist as provided herein can control pain in the subject more effectively than an equivalent amount of the NGF antagonist or the TNF $\alpha$  antagonist administered alone.

IPC 8 full level

**C07K 16/22** (2006.01); **A61K 39/00** (2006.01); **C07K 14/48** (2006.01)

CPC (source: EP KR RU US)

**A61K 39/395** (2013.01 - KR); **A61P 25/04** (2018.01 - EP); **A61P 29/02** (2018.01 - EP); **A61P 43/00** (2018.01 - EP); **C07K 14/48** (2013.01 - EP RU US); **C07K 14/70578** (2013.01 - US); **C07K 14/7151** (2013.01 - EP US); **C07K 16/22** (2013.01 - EP KR RU US); **A61K 2039/505** (2013.01 - EP US); **C07K 2317/21** (2013.01 - EP US); **C07K 2317/31** (2013.01 - US); **C07K 2317/56** (2013.01 - EP KR US); **C07K 2317/565** (2013.01 - KR US); **C07K 2317/622** (2013.01 - EP KR US); **C07K 2317/73** (2013.01 - EP KR US); **C07K 2317/76** (2013.01 - EP KR US); **C07K 2317/94** (2013.01 - EP KR US); **C07K 2319/00** (2013.01 - EP US); **C07K 2319/30** (2013.01 - EP KR US); **C07K 2319/32** (2013.01 - EP KR US); **C07K 2319/35** (2013.01 - KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015114150 A1 20150806**; AU 2015212787 A1 20160908; AU 2015212787 B2 20200618; AU 2020230316 A1 20201001; AU 2020230316 B2 20231005; AU 2023285832 A1 20240314; BR 112016017698 A2 20171010; CA 2938066 A1 20150806; CN 106459190 A 20170222; CY 1123248 T1 20211029; DK 3099713 T3 20200414; EP 3099713 A1 20161207; EP 3099713 B1 20200115; EP 3696193 A1 20200819; ES 2784238 T3 20200923; HR P20200477 T1 20200626; HU E048478 T2 20200828; JP 2017509323 A 20170406; JP 2020120666 A 20200813; JP 2022106951 A 20220720; JP 6687526 B2 20200422; JP 7074792 B2 20220524; KR 102489452 B1 20230116; KR 20160113711 A 20160930; LT 3099713 T 20200710; MX 2016010030 A 20170427; PL 3099713 T3 20200629; PT 3099713 T 20200416; RS 60156 B1 20200529; RU 2016132370 A 20180307; RU 2016132370 A3 20180321; RU 2019102141 A 20190322; RU 2678810 C2 20190201; SI 3099713 T1 20200630; US 10457728 B2 20191029; US 11053307 B2 20210706; US 11897949 B2 20240213; US 2015274818 A1 20151001; US 2018222971 A1 20180809; US 2020123241 A1 20200423; US 2021347871 A1 20211111; US 9884911 B2 20180206

DOCDB simple family (application)

**EP 2015052098 W 20150202**; AU 2015212787 A 20150202; AU 2020230316 A 20200911; AU 2023285832 A 20231221; BR 112016017698 A 20150202; CA 2938066 A 20150202; CN 201580017113 A 20150202; CY 201100338 T 20200410; DK 15701985 T 20150202; EP 15701985 A 20150202; EP 19214210 A 20150202; ES 15701985 T 20150202; HR P20200477 T 20200323; HU E15701985 A 20150202; JP 2016549449 A 20150202; JP 2020065513 A 20200401; JP 2022077858 A 20220511; KR 20167023831 A 20150202; LT 15701985 T 20150202; MX 2016010030 A 20150202; PL 15701985 T 20150202; PT 15701985 T 20150202; RS P20200396 A 20150202; RU 2016132370 A 20150202; RU 2019102141 A 20150202; SI 201531149 T 20150202; US 201514612137 A 20150202; US 201715849771 A 20171221; US 201916573192 A 20190917; US 202117333291 A 20210528